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RADIATION EFFECTS INFORMATION CENTER

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PART II
COORDINATE INDEX

INTRODUCTION

It has become apparent from the users of the REIC Monthly Accession List that it is no longer being used just for current awareness searches, as was originally intended, but is now being used by some individual and/or organizations to conduct retrospective searches. The REIC Technical Information File at Battelle Memorial Institute, Columbus, Ohio, was designed to maintain the complete store of information used to compile the Accession Lists, and conduct such searches. With the collection of a large number of reports dealing with radiation effects by many of the larger company libraries, as a result of the use of the Accession Lists, searching other sources, and internal research report preparation, the staff of the REIC has determined that an index to the abstracts provided in the Monthly Accession List would be highly desirable. It was found that the major REIC sponsor, the U.S. Air Force, Aeronautical Systems Division, Wright-Patterson Air Force Base, Ohio, also shared in this reasoning.

The coordinate index approach was chosen, as it provides several times the number of access points to the abstracts, and a much higher degree of search specificity than could be provided by a conventional index.

Under each term in the index will be found the abstract accession numbers of documents which have been indexed by that term. The accession numbers have been arranged in ten columns in accordance with their terminal digit, so that accession numbers may be compared column by column. Links are used where necessary to show the relationship of terms and to avoid unnecessary false abstract retrieval. Role indicators have not been used because of the extremely narrow scope of the literature abstracted. For example, it was found that only four of the proposed Engineers Joint Council role indicators would have been used with the majority of terms used.

The terms and concepts used to index the abstracts have been selected on the basis of the REIC contract scope and the experience gained during the past five years in assisting users of the Technical Information File to locate information. Comments from the recipients and users of this index will enhance its future value as a ready search tool.

It should be noted that this is a SELECTED ACCESSION LIST, thus not all documents extracted for the REIC Technical Information File are abstracted for the Monthly Accession List. Approximately sixty per cent of the literature extracted for the REIC Technical Information File is abstracted for the Monthly Accession List. The remaining forty per cent consists of newsbriefs, author abstracts, extracts of internal papers, classified and proprietary material, which is felt not to be appropriate for inclusion in the Monthly Accession List. Hence, in order to assure completeness in searches and to obtain information on the most recently acquired reports, it is necessary to contact the REIC. This dissemination service is not intended to replace direct contact with REIC, but rather to supplement such contact at the various locations remote to the center. Direct contact with the Center and its technical staff is encouraged.

A cumulative index will be provided each month, so that the previous month's index may be discarded, thus reducing the amount of space required for storage of the accession lists. Further, it is envisioned that at the end of each contract year, a dual coordinate dictionary will be provided to facilitate the use of abstracts for retrospective searching.

For the users who plan to continue the use of the accession list for current surveillance, the generic terms; miscellaneous, organic and inorganic compounds, electronics, polymers, metals and ceramics, dosimetry, facilities, and space are included in the second section of the index to provide the general subject category as used in the Monthly Accession List format over the previous years.

The coordinate index, as appearing this month, will be modified and revised to fit the needs of the REIC users.

ORGANIZATION

The following sections are provided:

- Section I: Radiation Environment
- Section II: Materials, Properties,
Secondary Environments,
Devices, and Other
Coordinate Terms
- Section III: Authors
- Section IV: Organizations

Section I includes the various types of radiation with electron energy, absorbed gamma dose, and neutron energy range subdivisions provided. The term space radiation is not included in this section; however, as a concept it is placed in Section II. The constituents of space radiation, electrons and protons, are, however, located in Section I when numerical values are attached to them.

Section II provides the terms and concepts for the various materials, properties, processes. The secondary environment concept, temperature, is indexed by temperature range to facilitate the location of the abstracts which deal with specific temperatures. The secondary or possibly primary environment, vacuum, is also included in its respective alphabetic position.

The authors of the abstracts are included in alphabetic order in Section III.

Section IV, of the organizations generating the reports, is divided into three subdivisions: U.S. Organizations, U.S. Government Agencies, and Foreign Organizations. Under each subdivision the organizations are listed alphabetically.

The REIC does not loan or distribute reports which are abstracted for the Monthly Accession List. The documents are, however, available for your use at the Center.

USE OF THE INDEX

The following examples indicate the approach to be followed in using the index.

- A. If you are interested in radiation effects on power converters, proceed as follows:
 1. Turn in Section II to the concept power converters, which is listed in alphabetic order.
 2. Note the accessions' numbers listed (17646 and 17898).
 3. In the abstract portion of the Monthly Accession List locate the numbers which are provided with the bibliographic citation in numerical order.
 4. On the basis of the information provided in the abstract you should be able to determine the pertinence of the article to your interest.
- B. If you were interested, for example, in pulsed radiation effects on cables, proceed as follows:
 1. Turn in Section I to the concept pulsed radiation.
 2. Turn in Section II to the term cable.
 3. Compare the accession numbers under pulsed radiation and cable, column by column. The coordination will yield five common numbers (17650, 17921, 17522, 17626, and 17949), which should be noted.
 4. Turn in the abstract portion of the Monthly Accession List to the numbers for further bibliographic and abstract information.
- C. If you were interested in the effect of 10^9 ergs $g^{-1}(C)$ on glass, proceed as follows:

1. Turn in Section I to Gamma 10^9 ergs $g^{-1}(C)$.
2. Turn in Section II to Glass.
3. Compare the accession numbers column by column. The comparison will yield two common numbers (17365 and 17694).
4. Turn to the abstracts in the Monthly Accession List for further information as to their pertinence to your interest.

D. If you were interested in the effect of fast neutron irradiation of 10^{19} n/cm^2 on steels, you would proceed as follows:

1. In Section I locate fast neutron irradiation.
2. In Section I locate 10^{19} n/cm^2 (included in the 10^{19} to 10^{21} n/cm^2 range).
3. Compare the accession numbers column by column. The comparison will yield twelve common numbers (17370, 17662, 17823B, 17375, 17665, 17985, 17836, 17327, 17627A, 17349, 17379, and 17849).
4. Compare those accession numbers which were found to be common (as indicated above) column by column with the term steel in Section II. The comparison will yield three common numbers (17375, 17327, and 17849).
5. By turning to the abstracts, further information is obtained.

SECTION II

MATERIALS, PROPERTIES, SECONDARY ENVIRONMENTS, DEVICES AND OTHER COORDINATE TERMS

Alpha Irradiation		1736A 1736B 1736C		1 1/4 Per Cent Cr - 1/2 Per Cent Mn Steel		1737	
Deuteron Irradiation		1736A		4-79 Mo-Ni-Mo Alloy		1737A	
Electromagnetic Irradiation		1736A		19 MM Alloy		1737B	
Electron Irradiation		1736A		10H Stainless Steel		1737C	
Electron Less than 1MeV		1736A		10H Stainless Steel		1737D	
Electrons 1MeV		1736A		10H Stainless Steel		1737E	
Electrons 2MeV		1736A		10H Stainless Steel		1737F	
Electrons 3MeV		1736A		10H Stainless Steel		1737G	
Electrons 5MeV and above		1736A		10H Stainless Steel		1737H	
Gamma Irradiation		1736A		10H Stainless Steel		1737I	
Gamma Less than 10 ⁶ ergs g ⁻¹ (C)		1736A		10H Stainless Steel		1737J	
Gamma 10 ⁶ ergs g ⁻¹ (C)		1736A		10H Stainless Steel		1737K	
Gamma 10 ⁷ ergs g ⁻¹ (C)		1736A		10H Stainless Steel		1737L	
Gamma 10 ⁸ ergs g ⁻¹ (C)		1736A		10H Stainless Steel		1737M	
Gamma 10 ⁹ ergs g ⁻¹ (C)		1736A		10H Stainless Steel		1737N	
Gamma 10 ¹⁰ ergs g ⁻¹ (C)		1736A		10H Stainless Steel		1737O	
Gamma 10 ¹¹ ergs g ⁻¹ (C)		1736A		10H Stainless Steel		1737P	
Gamma 10 ¹² ergs g ⁻¹ (C) and Above		1736A		10H Stainless Steel		1737Q	
Neutron Irradiation		1736A		10H Stainless Steel		1737R	
Fast Neutron Irradiation		1736A		10H Stainless Steel		1737S	
Integrated Neutron Irradiation		1736A		10H Stainless Steel		1737T	
Thermal Neutron Irradiation		1736A		10H Stainless Steel		1737U	
Neutrons 10 ⁹ n/cm ² and Less		1736A		10H Stainless Steel		1737V	
Neutrons 10 ¹⁰ to 10 ¹² n/cm ²		1736A		10H Stainless Steel		1737W	
Neutrons 10 ¹³ to 10 ¹⁵ n/cm ²		1736A		10H Stainless Steel		1737X	
Neutrons 10 ¹⁶ to 10 ¹⁸ n/cm ²		1736A		10H Stainless Steel		1737Y	
Neutrons 10 ¹⁹ to 10 ²¹ n/cm ²		1736A		10H Stainless Steel		1737Z	
Photon Irradiation		1736A		10H Stainless Steel		1737A	
Proton Irradiation		1736A		10H Stainless Steel		1737B	
Pulsed Irradiation		1736A		10H Stainless Steel		1737C	
Ultraviolet Irradiation		1736A		10H Stainless Steel		1737D	
X Ray Irradiation		1736A		10H Stainless Steel		1737E	

Bombardier E-631				-116-	Cosmic Radiation 17691	17903	17804 17994	17336	
Boron Hydride 17811	17944D				Cracking				17378
Breakdown Voltages 17882 17972			17287	17649	Crimp-Rupture	17613		17336	
Bromestrahling	17894				Crosslinking 17700 17701	17612	17614		17699
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Bulk Conductivity		17299			Cryogenic Testing	17652	17653	17996	17307 17898
Burning Rate				17899A	Crystal Units	17532	17693	17824A 17824B	17919B
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Cables 17690 17921 17322			17686	17949	Cuprous Oxide 17910				
Cadmium				17938C	Current Gain		17644		
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Cadmium Oxide			17996		Cyclohexane		17364		
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Cadmium Sulfide					Damage Monitoring 17940				17659
Cadmium Telluride	17813C	17915	17306		Damping Fluid				
Calcium Fluoride	17813C				Daphne Reactor				17308
Calcium Titanate	17893			17647	Defect Formation	17983	17974	17366	17339
Calorimetry				17987	Delay		17823		
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Cambridge Electron Accelerator 17302	17944F				Detection			17835	17526
Capacitance 17891					Diallylphthalate 17531		17635		
Capacitors 17630	17358			17910A	Eisner Ordnance Radiation Facility 17890				
Carbon					Dichlorofluoromethane				17267
Carbonates	17613			17630B	Dielectric Constant		17304		17689
Carbon Black	17643 17833B				Dielectric Loss		17304		17697
Carbon Dioxide Product				17358	Electric Properties 17531		17284 17304		17357 17647 17697
Carbon Monoxide Product				17358	Dielectrics 17531		17654	17615	
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Carbon Tetrafluoride 18000					Diffusion 17480		17284		
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Cesium Nitrate 17950				17358	Dislocation Loops				17368
Chain Scission 17701..				17908	Displaced Atoms			17305	
Chemical Dosimeters 17950	17893		17527 17907	17908	Displacement Cascades			17955	17959
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Circuitry 17930	17922			17919C	Displacement Energy				17847
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Coaxial Cables see Cables Cobalt 60					17529				
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Cobalt Glass 17523					Dow Corning F-60				17659
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Collector to Base Breakdown Voltage 17822					Ductile-Brittle Transition Temperature 17371	17633			17849
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Copper 17390 17399	17911 17892	17944	17376	17847	Electric Field Meter	17373			
Copper Alloys 17950A 17950C 17950D		17373			Electric Propulsion		17933		

Electromechanical Properties

Electron Absorption

Electron Emission

Electronics

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 17650 17351 17342 17333 17894 17305 17336 17337 17648 17389
 17810 17651 17338 17693 17304 17335 17366 17687 17698 17619
 17820 17661 17928 17813 17344 17345 17616 17647 17818 17649
 17840 17821 17332 17823 17344 17645 17685 17807 17838 17819
 17910 17841 17662 17913 17644 17855 17636 17809 17889 17889
 17930 17891 17818 17973 17814 17905 17696 17817 17898 17919A
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Electron Spin Resonance

Electron Tubes

Electrostatic

Elongation

Embitterment

Emittance

Emitter to Base Potential see Bias Voltage

Energy Deposition

Energy Spectrum

Epoxy Resins

Esaki Diodes

Etching

Ethylene

Explorer I

Explorer VIII

Explorer XI

Explorer XII

Explosives see also specific explosive

Evaporation Rate

Facilities

Fallout

Fatigue Strength

Ferrites

Ferroelectric Materials

Ferrous Ion (+2)

Fiberglass

Fillers

Film

Film Dosimetry

Filters

Fission Chamber

Fission Fragments

Flash X-Ray Devices

Flight Control Systems

Flip-Flop

Flotation Fluids

Fluorocarbons see also Specific Polymer

Fluorescence

Forsterite

Forward Current Transfer Ratio

Forward Voltage Drop

Free Radicals

Frankel Defects

Friction

Fuel Elements

Fuels

G Values

Gallium Arsenide

Grain Facilities

Grain

Gaseous Products

Gelation

Germanium

Glass

Glass Fibers see Fiberglass

Gediva Facility

Gold

Graphite

Grazing

Guidance Systems

Gyro

Hall Coefficient

Hall Effect

Hardening

Hardness

Hazards

Heat Deposition

Heat Transfer

Heat Transfer Fluids

Helium

Hexafluorobenzene

Hexafluoroethane

Hexaphenyl Ether

H-Film

High Purity Materials

Hydraulic Fluids

Hydrazine

Hydrogen

Hydrogen Chloride

Hydrogen Peroxide

Hydrogen Product

Nylon 30

Hypervelocity Particles see also Micrometeorites

Ignition Temperature

In Air

Inconel X

Inert Atmosphere see Specific Environment

In Fuels

In Helium

In Nitrogen

In Oxygen

Indium Antimonide

Indium Oxide

Induced Current

Infrared Detectors

Infrared Spectra

In Jun I

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[illegible]

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